

STAT

Quarterly Progress Report
Number 6

November 15, 1965

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[] Project Number: 723
Title: PI Performance
Contract Dates: 6/19/64 - 6/19/66
Estimated Costs: []
Funds Expended to 9/31/65: []
Costs Remaining: []
Technical Representative: JH and PS
Project Director: DNB
Project Staff: DNB, AH, RJH

Declass Review by NGA.

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This progress report covers the period from August 15, 1965 to November 15, 1965.

Expenditures

The average expenditure rate thus far has been about [] per month; this is slightly less than the estimated rate of [] per month. During the three-month period from July 30, 1965 to October 31, 1965, the average monthly expenditure was []

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Progress

PI Response Study

The photography and collateral information required for this study have been gathered. DNB and AH have received the collateral information and the selected frames from BG and CH. This information in conjunction with information supplied by experienced PIs and analysts will be used to prepare the tests. They will be prepared in the next reporting period.

The collection of the photography took longer than anticipated for two reasons: the camera did not function properly and the aircraft had to make more than one pass over the selected areas. Because of the slow speed (160 knots) and low altitude at which the

aircraft had to fly, the nose of the aircraft had to be pointed up; consequently downward visibility was poor, which made accurate navigation very difficult.

Mensuration Study

DNB and FS visited CM's shop in October to pretest the mensuration procedure. The master glass plate and one GEM were measured by one operator. The computer group in the building offered to process the data, but because computer time was not available, no data were processed. Consequently we decided to have JC's shop do the required calculations.

Data collection has started and no serious problems are anticipated. If we are lucky, the data collection phase of the study will be completed in about 10 weeks. (However, we have agreed upon a J factor of 10 weeks too.) The data analyses will be done as the data are gathered.

Other Studies

STAT DNB, AH and FS met with BJ and discussed additional studies using photography of the model. One of the studies discussed will be conducted in the next reporting period. It will be a study of the judged worth of aerial photography as a function of obliquity angle with scale held constant.

This study will be conducted in the same way as was the convergence angle-obliquity study, in which scale varied as a function of the cosine of the roll angle.